



SATURN V PROGRAM DIRECTIVE

NUMBER: 40

SUBJECT: CONFIGURATION MANAGEMENT OF ENGINEERING CRITICAL COMPONENTS

ORIGINAL ISSUE DATE: January 25, 1967 REVISION NUMBER: _____

DATE OF REVISION: _____ PREPARED BY: SATURN V CONFIGURATION MANAGEMENT
BRANCH, Phone 877-2607/RPaulusREF.
↓I. PURPOSE

This Program Directive:

- A. Establishes Policy
- B. Assigns Responsibility
- C. Prescribes Procedures

for configuration management of engineering critical components.

II. SCOPE

This Program Directive applies to Saturn V Project Offices, both hardware and functional and other elements of MSFC as named herein.

III. POLICY

The configuration of engineering critical components (defined in Saturn V Program Directive #26) which have been baselined by the Saturn V Program Configuration Control Board (Level II CCB) shall:

- A. Be accurately identified by detail specifications.
- B. Be contractually baselined and subject to Class 1 Change Control upon completion of qualification testing.

IV. RESPONSIBILITY AND PROCEDURE

- A. Engineering Critical Components shall be identified as required by Saturn V Program Directive #26, subject: Saturn V Single Failure Points (SFP) Control

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IV. RESPONSIBILITY AND PROCEDURE (Continued)

- B. Engineering Critical Components list(s) and changes thereto shall be baselined and controlled by the Saturn V Program Configuration Control Board (Level II CCB).
- C. Engineering Critical Component specifications shall be prepared and maintained by the responsible contractor (or R&DO) under the management control of the cognizant Saturn V Project Office. Part I and Part II type specifications shall be prepared per Exhibit VI of the Apollo Configuration Management Manual NPC 500-1, or the existing procurement or source control specifications may be utilized, if adequate.
1. These specifications shall be referenced in the stage CEI specifications and maintained by the responsible contractor.
 2. When Part I and Part II Engineering Critical Component specifications are used:
 - a. The Part I Critical Component specifications shall be included by reference in the Part I stage CEI specifications.
 - b. When baselined, the Part II Critical Component specifications shall be included by reference in the Part II Stage CEI specifications.
 3. When present Engineering Critical Component procurement or source control specifications are used:
 - a. The Engineering Critical Components shall be listed in the Part I Stage CEI specifications.
 - b. The Engineering Critical Component specifications with part numbers shall be included by reference in the Part II Stage CEI specifications.
- D. The detail product configuration baseline (Part II specification or single specification and part number) of each engineering critical component shall be contractually established as the item is qualified. Validity of the product configuration baseline shall be established:

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IV. RESPONSIBILITY AND PROCEDURE (Continued)

1. By FACI at the vendors plant if possible, or
 2. Through normal quality inspections without FACI if adequacy of such normal inspection is verified by the cognizant Project Office through coordination with the affected contractors, the government inspection agency and the Quality and Reliability Assurance Laboratory of R&DO.
- E. After the detail product configuration baseline is contractually established, all changes shall be under Class 1 change control.
1. Detail description of any configuration change to any baselined engineering critical component shall be submitted and approved as part of the ECP package (the contractor will then update the specification).
 2. If desired by the responsible Project Manager, SCN's to the engineering critical component specifications may be submitted and approved as part of the ECP packages.

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